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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/045,787	01/14/2002	Atsushi Saitoh	P/1071-1511	3028

7590 02/10/2004

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EXAMINER

LEE, BENNY T

ART UNIT	PAPER NUMBER
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2817

DATE MAILED: 02/10/2004

Please find below and/or attached an Office communication concerning this application or proceeding.



UNITED STATES DEPARTMENT OF COMMERCE
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10/045787

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Sub: the examiner in charge of your application.
PATENTS AND TRADEMARKS

☐ This application has been examined ☒ Responsive to communication filed on 19 Nov 2003 ☐ This action is made final.

A shortened statutory period for response to this action is set to expire Two (2) month(s), _____ days from the date of this letter.
Failure to respond within the period for response will cause the application to become abandoned. 35 U.S.C. 133

Part I THE FOLLOWING ATTACHMENT(S) ARE PART OF THIS ACTION:

- | | |
|---|---|
| 1. <input type="checkbox"/> Notice of References Cited by Examiner, PTO-692. | 2. <input type="checkbox"/> Notice re Patent Drawing, PTO-948. |
| 3. <input type="checkbox"/> Notice of Art Cited by Applicant, PTO-1449. | 4. <input type="checkbox"/> Notice of Informal Patent Application, Form PTO-152 |
| 5. <input type="checkbox"/> Information on How to Effect Drawing Changes, PTO-1474. | 6. <input type="checkbox"/> _____ |

Part II SUMMARY OF ACTION

1. ☒ Claims 1-15 are pending in the application.
Of the above, claims _____ are withdrawn from consideration.
2. ☐ Claims _____ have been cancelled.
3. ☒ Claims 1-15 are allowed.
4. ☐ Claims _____ are rejected.
5. ☐ Claims _____ are objected to.
6. ☐ Claims _____ are subject to restriction or election requirement.
7. ☐ This application has been filed with informal drawings under 37 C.F.R. 1.85 which are acceptable for examination purposes.
8. ☐ Formal drawings are required in response to this Office action.
9. ☐ The corrected or substitute drawings have been received on _____ Under 37 C.F.R. 1.84 these drawings are ☐ acceptable; ☐ not acceptable (see explanation or Notice re Patent Drawing, PTO-948).
10. ☒ The proposed additional or substitute sheet(s) of drawings, filed on _____ has (have) been ☐ approved by the examiner; ☐ disapproved by the examiner (see explanation).
11. ☐ The proposed drawing correction, filed _____, has been ☐ approved; ☐ disapproved (see explanation).
12. ☐ Acknowledgement is made of the claim for priority under U.S.C. 119. The certified copy has ☐ been received ☐ not been received ☐ been filed in parent application, serial no. _____, filed on _____.
13. ☒ Since this application appears to be in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213.
14. ☐ Other

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EXAMINER'S ACTION

PTOL-328 (Rev. 9-89)

SN 45787
U.S.GPO:1990-259-282

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In view of the below indicated allowability of the claims of the elected invention, withdrawn claims, 2, 3, 8-15 have now been rejoined with the elected claims which have already been examined.

This application is in condition for allowance except for the following formal matters:

In the Specification:

The disclosure is objected to because of the following informalities: Page 6, line 20, note that --PREFERRED-- should precede "EMBODIMENTS" for a proper characterization. In the replacement paragraph to page 10, line 7, note that "dimensions of the other portions" should be explicitly described for "Fig. 6B". That is to say, the specific dimensions labeled in "Fig. 6B" should be explicitly described in the specification here at. In the replacement paragraph to page 11, lines 10-13, note that --(see Figs. 10A to 10C)-- should follow "110" & --(see Fig. 10C)-- should follow "holes" for consistency with the drawing figures. In the replacement paragraph to page 15, line 24, 12th line therein, is reference to "not shown in Figs. 9A and 9B" a correct and necessary description? In other words, since the description here at pertains to "figure 12", it is unclear why a reference to features "not shown" in different figures (i.e. Figs. 9A and 9B) is necessary. Appropriate correction is required.

In the Drawings:

The drawings are objected to because of the following: In Fig. 3B, reference label --2-- needs to be provided as per page 8, line 2 of the specification description; In Fig. 6B, note that dimensions for the diameter and pitch of the through holes as labeled therein need to be provided

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such as to be commensurate with the dimensions as provided in specification description; In Figs. 9A, 9B, note that width --W-- needs to be labeled as per page 12, line 3 of the specification description; In Fig. 12, note that "DIODES MIXER" should be rephrased as --TWO DIODE MIXER-- for a proper characterization. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

In the Claims:

The following claim have been found objectionable for reasons set forth below:

In Claims 2, 3, note that "than that of the rest part" should be rephrased as --than the dielectric constant of the remaining part-- at each occurrence for an appropriate characterization.

In claim 8, note that "the corner of said protruding portion are rounded" should be rephrased as --said protruding portion have corners which are rounded-- for an appropriate characterization.

In claim 9, note that "get" should be rewritten as --be-- for an appropriate characterization.

In claim 10, note that "formed" should be rewritten as --disposed-- for clarity of description.

In claims 11, 13, note that "the base material" should be deleted as being unnecessary and to avoid potential lack of antecedent basis problems.


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Prosecution on the merits is closed in accordance with the practice under *Ex parte* Quayle, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

Claims 1-15 are allowable over the prior art of record since the combination of a single protruding portion extending from one of the surfaces of the dielectric plate and a plurality of through holes arrayed on both sides of the protrusion as recited in independent claim 1 is not taught or suggested by the combination of the Uchimura et al and Saitoh references.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Benny Lee whose telephone number is (571) 272 1764.


BENNY T. LEE
PRIMARY EXAMINER
ART UNIT 2817

B. Lee

February 2, 2004